SONY

Mini Hi-Fi Component System

Operating Instructions ____ EN

Mode d'emploi ____ F

Manual de Instrucciones ____ E

使用説明書 ____ C

COMPACT disc DIGITAL AUDIO

FH-C33X

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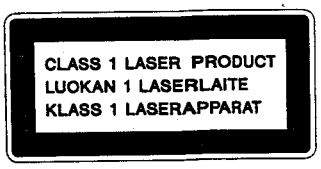
WARNING

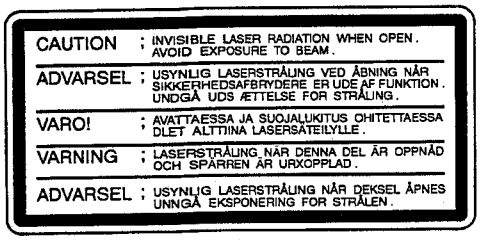
To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.


CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO! ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING ; LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD.
ADVARSEL ; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

This caution label is located inside the unit.

Welcome!

Thank you for purchasing the Sony Mini Hi-Fi Component System. This series is packed with fun features. Here are just a few:

- A preset feature, that lets you store and recall up to 40 of your favourite radio stations
- An amplifier that lets you adjust the audio quality to fit 3 music types
- A timer that lets you set the CD player, tape player or radio to turn on and off whenever you want
- A dual tape deck that lets you record from the radio, CD player or from the other tape deck and relay play from both decks
- A CD player that lets you play up to 5 CDs in a row
- A remote commander that lets you control your system from your seat

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Chapter 1: Setting Up

Connecting the Stereo

Inserting the Batteries

Setting the Clock

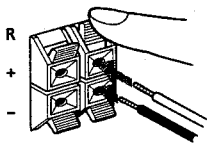
Connecting the Stereo

Use the illustrations below to connect your stereo.
If you want to connect any optional components to the stereo, see "Connecting Optional Equipment" in Chapter 6.

STEP 1 Connecting the Speakers

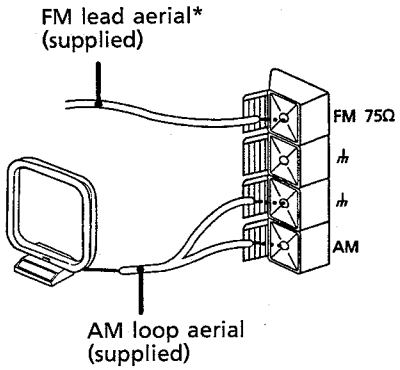
1 Twist the speaker cable coating and strip it from the end of the cable.

2 Connect the right speaker to the R connectors and the left speaker to the L connectors.



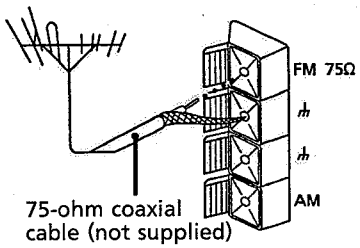
To set up the speakers away from the system
Use a speaker cord and audio cord (not supplied) to extend the length of the connecting cords.

STEP 2 Connecting the Aerial



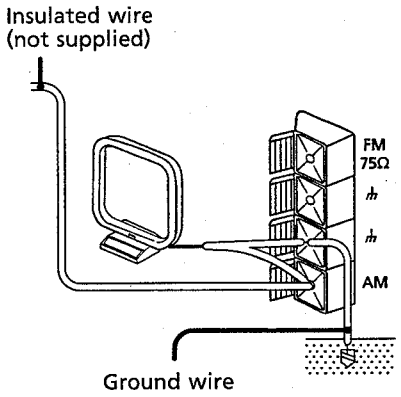
*Note: Extend it horizontally

To improve the FM reception
Connect an outdoor FM aerial to the FM 75Ω and ⏚ terminals, using a 75-ohm coaxial cable.



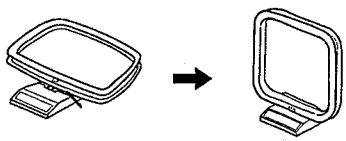
To improve the AM reception
After you connect the AM aerial, connect a 6- to 15-meter (20- to 50-feet) insulated wire to the AM terminal. Connect the ⏚ terminal to earth.

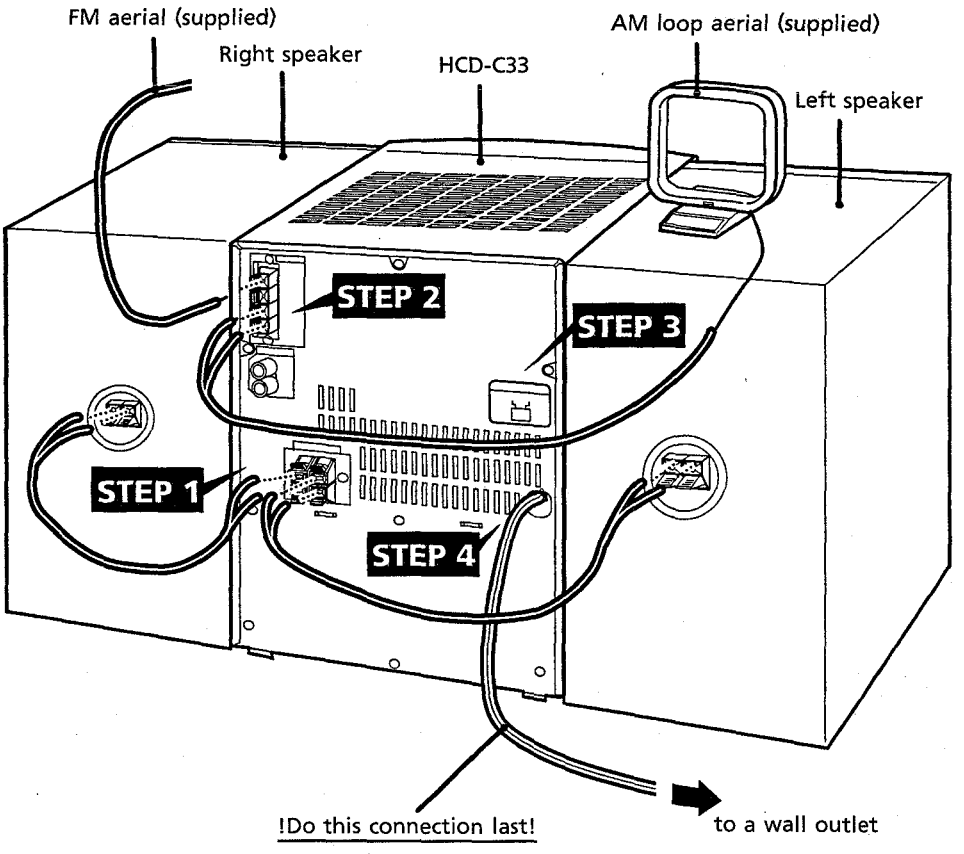
Important
Ground the external aerial against lightning. To prevent a gas explosion, do not connect the ground wire to a gas pipe.



To set up the AM loop aerial

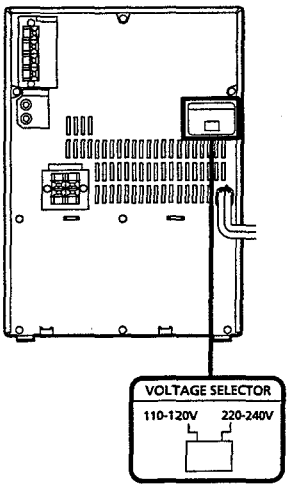
When placed on a flat surface





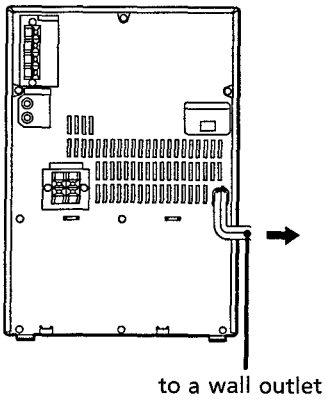
STEP 3 Adjusting the Operating Voltage

Before connecting the power, set VOLTAGE SELECTOR to the position of the local power line voltage.



STEP 4 Connecting the Power

Connect the mains lead to a wall outlet after you have made all the above connections.



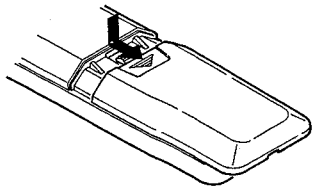
Caution

Before you power on the stereo, turn the VOLUME control counterclockwise to decrease the sound level.

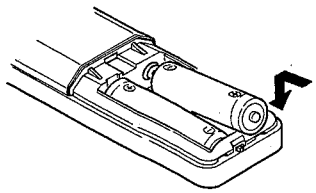
Inserting the Batteries

Install two R6 (size AA) batteries in the supplied remote commander for remote control.

1 Slide the lid to remove it.



2 Insert two R6 (size AA) batteries. Match the + and – to the diagram in the battery compartment.



3 Slide the lid to replace it.

Battery life

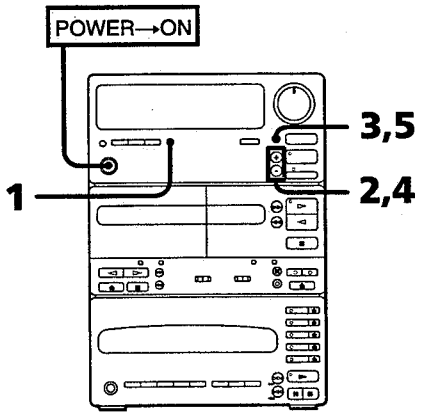
You can expect the remote commander to operate for about six months (using Sony SUM-3 (NS) batteries) before the batteries run down. When the batteries no longer operate the commander, replace all the batteries with new ones.

To avoid battery leakage

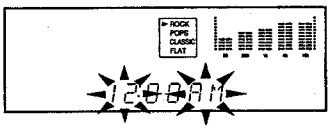
If you are not going to use the commander for a long time, remove the batteries to avoid damage caused by corrosion from battery leakage.

Setting the Clock

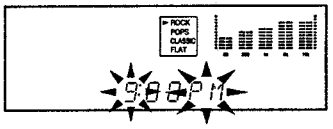
The built-in clock shows the time in the display even if the power is off. You need to set the clock to enjoy the timer-activated features of your stereo system.
Use the buttons on the unit to do this operation.



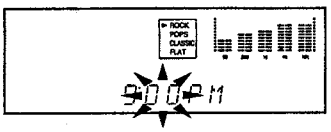
1 Press CLOCK SET.
The "AM" and hour indication begin flashing.



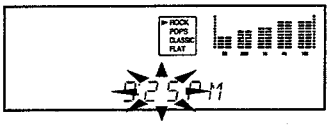
2 Set the current hour by pressing TUNER/TIMER (+/–) until the correct hour appears.



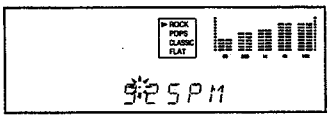
3 Press MEMORY/NEXT.
The minutes indication begins flashing.



4 Set the current minute by pressing TUNER/TIMER (+/–) until the correct minute appears.



5 Press MEMORY/NEXT.
The clock starts running and the upper dot flashes.
Use the time signal to set the clock accurately.



To check the time while power is on

Press CLOCK DISPLAY on the remote commander.
The current time appears for a few seconds.

To correct the clock setting

Repeat steps 1 to 5.

Chapter 2: the CD Player

Inserting the CDs

Playing the Entire CD (normal play)

Playing Tracks in Random Order (shuffle play)

Playing in the Desired Order (programme play)

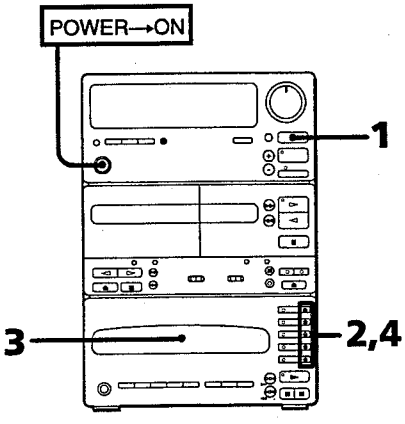
Playing Repeatedly (repeat play)

Inserting the CDs

You can insert five CDs at one time. In addition to playing these five CDs in succession, you can also play them back in a wide variety of other modes, such as repeat, shuffle, and programme. You can also play back only certain selected CDs and tracks that you want to hear.
You can operate the stereo system on the unit or from the supplied remote commander. Also, you can play 12 cm (5-inch) and 8 cm (3-inch) CDs. If the CD is supplied with an adaptor, remove it before playing the CD.
Before you play the CD, decrease the sound level by turning the VOLUME control counterclockwise, to avoid damaging the speakers.

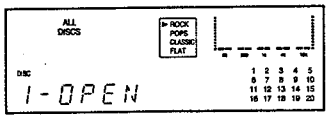
Note

When the system is first plugged in, even if the power is not on, the CD player will make mechanical sounds internally, and the message "Initializing" will scroll across the display window.
While this display is in progress, nothing will happen even if the power is turned on and the CD player buttons are pressed.
If any other function (TUNER, TAPE) is selected, sound will be produced from the speakers but the "Initializing" message will still scroll across the display.

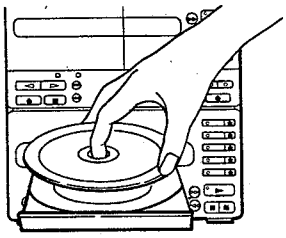


1 Press FUNCTION until "CD" appears in the display.

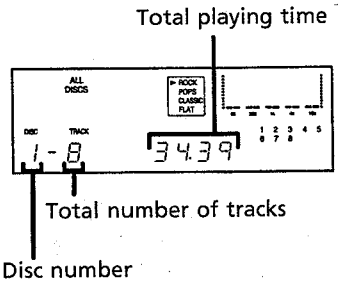
2 Press OPEN/CLOSE ⏏ of the desired disc tray.
The green indicator for the tray which opened (DISC 1 – 5) lights up.



3 Holding the CD by the edge, place the CD on the disc tray with the label side up. (When you play an 8-cm CD, place it on the inner circle of the disc tray.)



4 Press OPEN/CLOSE ⏏ again.
The disc number appears in the display and then the display shows the following for 4 seconds:



To take out the CD

Press OPEN/CLOSE ⏏ of the desired disc tray.

To insert CDs sequentially

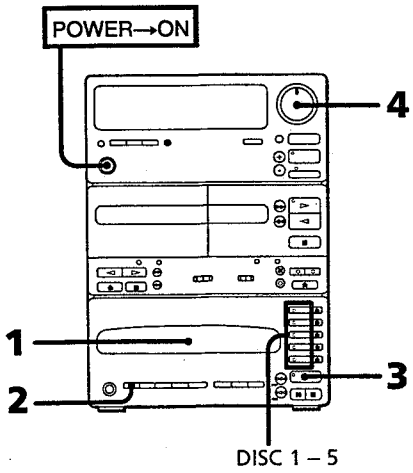
Press DISC SKIP on the remote commander after step 2. The next tray opens each time you press DISC SKIP so that you can insert other CDs.

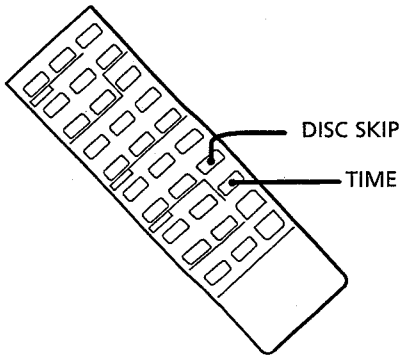
What the green and orange indicators indicate

An indicator is provided for each disc tray (DISC 1 – 5).

- The green indicator shows that the tray is selected (either during play or standby, or when the tray is open) no matter if there is a CD inside or not.
- The orange indicator shows that there is a CD in the tray but the tray is not selected.
- When the indicator is off, there is no CD in the tray and the tray is not selected.

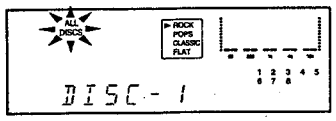
Playing the Entire CD (normal play)



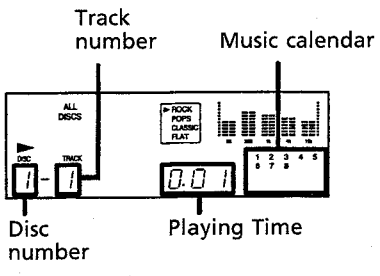


1 Insert the CD(s) in the disc tray(s).

2 Press CONTINUE to choose whether to play one CD (1 DISC) or all CDs (ALL DISCS).



3 Press ► or DISC 1 – 5 (or CD ► on the remote commander).
Play starts from the beginning of the selected CD (whose disc tray indicator is green).



4 Adjust the volume.
Turn VOLUME clockwise to turn up the volume, or counterclockwise to turn down. (Or press VOL +/– on the remote commander.)

To	Press
Stop play	■
Pause	❚❚
Resume play	► or ❚❚
Remove the CD	OPEN/CLOSE ⏏

One Touch Play feature

Press ► on the CD player (or CD ► on the remote commander) when the power is off. When a CD is in the player, you will be able to start listening to the CD without pressing any other buttons. If no CD is inserted, the system will just turn on.
If ► is pressed when there are no discs in the player, then the first disc tray will emerge, whether the power is on or not.

Note

If the CD player has been in the normal play mode, you can select the CD player by pressing ► or the DISC 1 – 5 buttons (Automatic Source Selection).
If the CD player has been in the programme play or the shuffle play mode, only ► can be used for this function.

Selecting a Desired CD

You can locate the beginning of any CD during play or pause, or when the player is stopped.

To locate the beginning of a particular CD and start playing

Press the corresponding DISC 1 – 5 button. During normal play mode, CD play starts.

To change to the next CD

Press DISC SKIP on the remote commander. During play, the player selects the next CD and starts playing.
During stop or pause, the player selects the next CD and enters stop or pause mode.

To find the beginning of a track — Automatic Music Sensor (AMS)

You can locate the beginning of a track while the track is playing or while it's in pause mode.

To locate the beginning of the current or preceding track, press ⏮◀◀ (or ⏮◀◀ on the remote commander) repeatedly until you find the track you want.

To locate the beginning of the succeeding track, press ▶▶⏭ (or ▶▶| on the remote commander) repeatedly until you find the track you want.

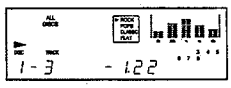
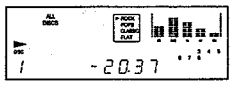
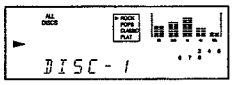
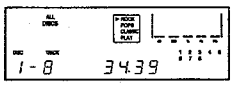
To find a point in a track

You can find a particular point in a track while the track is playing or while it's in pause mode. Use the buttons on the CD player to operate this feature.

To	Do this
Go forward quickly in a track	Hold down ▶▶⏭ and release it at the desired point.
Go backwards quickly in a track	Hold down ⏮◀◀ and release it at the desired point.
Search quickly without listening	Press ❚❚ and hold down ⏮◀◀ or ▶▶⏭. Press ► or ❚❚ again at the desired point.

To check the remaining or total playing time

Use the TIME button on the remote commander.

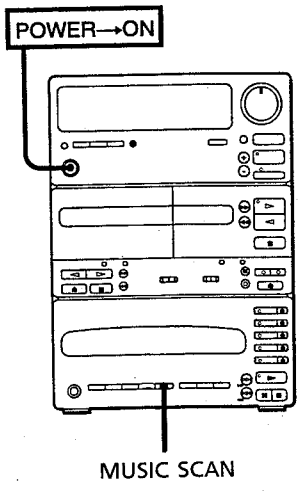
To check	Press
Remaining time in a track	TIME once during play 
Remaining time on the CD	TIME twice during play of the tracks left (displayed only in the normal play mode) 
Disc number	TIME three times during play 
Disc number, total number of tracks and total playing time	TIME in stop mode  appears for a few seconds

Notes

- You cannot check the total playing time during programme play.
- The disc number, total playing time and number of tracks also appear in the display when you press OPEN/CLOSE ⏏ to close the disc tray.

Checking the tracks on the CDs (Music Scan)

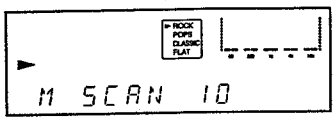
You can check the tracks by scanning the beginning of each track on the CD.
Three scanning times can be selected: 10, 20 and 30 seconds, after which the track is faded out in two seconds.



1 Press MUSIC SCAN so that ► flashes in the display.

2 While "M SCAN 10" is lit, press MUSIC SCAN to select the scanning time.
Each time you press this button, the display changes as follows:

M SCAN 10 → M SCAN 20
↑ M SCAN 30 ←



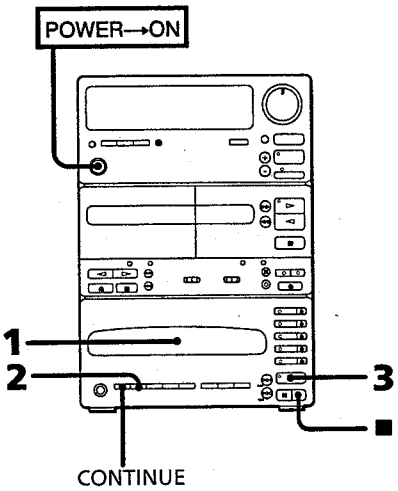
Playing mode	Tracks played
Normal play (ALL DISCS)	Plays the first track on all CDs.
Normal play (1 DISC)	Plays all the tracks on the CD in order.
Shuffle play (ALL DISCS)	You cannot use Music Scan in this mode.
Shuffle play (1 DISC)	Plays all the tracks on the CD at random.
Programme play	Plays all the tracks in their programmed order.

Notes on handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape onto the disc.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.

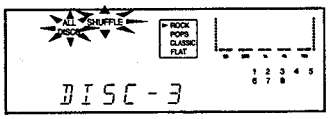
Playing Tracks in Random Order (shuffle play)

You can play all the tracks on one CD or all CDs in random order.
Use the buttons on the unit to do this operation.



1 Insert the CD(s) in the disc tray(s).

2 Press SHUFFLE to choose whether to play one CD (1 DISC) or all CDs (ALL DISCS).



3 Press ►.
"[ ]" appears and then all the tracks play in random order.

To stop playing

Press ■.

To cancel shuffle play

Press CONTINUE.
"SHUFFLE" disappears from the display, and tracks continue playing in their original order.

To play the next track during shuffle play

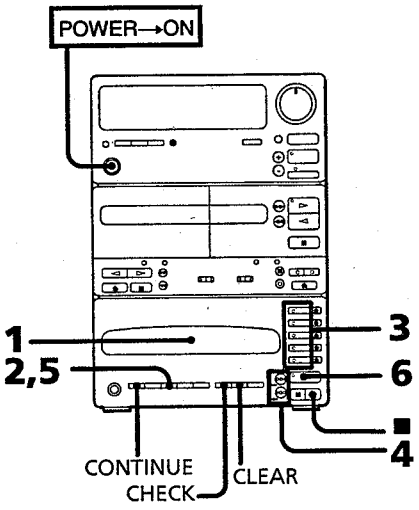
Press ►► ▷▷|.
To replay the current track, press |◁◁ ◄◄.
You cannot replay the previous track.

To select the desired CD

Press DISC 1 – 5 during "1 DISC" shuffle play. You cannot select the CD with DISC 1 – 5 during "ALL DISCS" shuffle play.

Playing in the Desired Order (programme play)

You can make a programme of up to 32 tracks from all the CDs in the order you want them to be played.

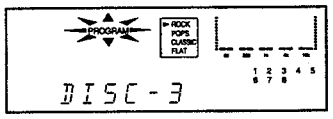


To programme tracks

You can programme one track or one whole CD in each programme step.

1 Insert the CD(s) in the disc tray(s).

2 Press PROGRAM.
"PROGRAM" appears in the display.



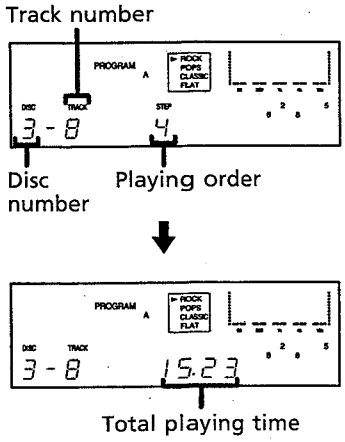
3 Press DISC 1 – 5 to choose a CD.
To programme all tracks in the CD as one programme step, repeat step 3 and choose another CD.

4 Press |◁◁ ◄◄ or ►► ▷▷| to choose a track.
The disc number, the track number and the total playing time appear. If you want to choose this track, go to the next step. If not, press |◁◁ ◄◄ or ►► ▷▷| again to choose another track.

continue to next page →

→ continued

5 Press PROGRAM.
The chosen track number lights up in the music calendar. If the track number disappears before you press PROGRAM, go back to step 3.
To programme additional tracks from the same CD, repeat steps 4 and 5.
To programme additional tracks from another CD, repeat steps 3 to 5.



Notes

- If only the playing order appears instead of the total playing time during programming, this means the total programmed time has exceeded 100 minutes.
- If you have programmed 32 tracks, "STEP FULL" appears in the display.

6 Press ►.
All the tracks play in the order you choose.

To	Press
Check the programme	CHECK repeatedly*1
Programme a pause	II*2
Stop play	■
Cancel the programme play	CONTINUE*3
Erase a track from the end	CLEAR in stop mode
Erase a specific track	CHECK repeatedly so the number of the track lights up, and press CLEAR
Erase the entire programme	■ once in stop mode and twice while playing*4

*1 After the last track appeared "CHECK END" appears in the display.
*2 "P" appears and the total playing time is reset to 0.00.
*3 The programme is erased.
*4 "ALL CLEAR" appears in the display.

To change the order of programmed tracks

Erase the entire programme and create a new one.

To programme one whole CD while checking the total playing time

You can programme tracks while checking the total playing time by using DISC SKIP on the remote commander to choose the desired CD.

1 Press DISC SKIP instead of DISC 1 – 5 to choose the desired CD.
2 Check the total playing time, and repeat step 1 if not satisfactory.
3 Press PROGRAM while the total playing time is flashing.

To see the "STEP" display

Press TIME on the remote commander during stop mode.
The total playing time display changes to the display showing the number of programmed tracks for 1 second.

The whole programme is erased also when:

- you select other play modes.
- you disconnect the mains lead.

To erase the programme of a whole CD

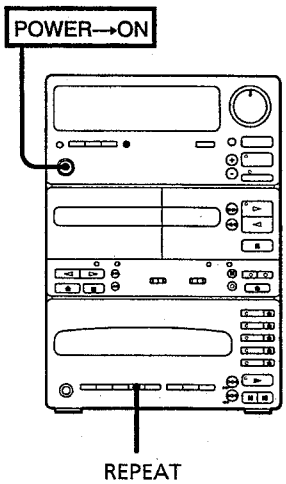
Press OPEN/CLOSE ⏏ for that CD.

To add one whole disc to the end of a programme during play

Press DISC 1 – 5 to add one whole CD as one programme step.
You cannot add individual tracks from a CD during play.

Playing Repeatedly (repeat play)

The repeat play function repeats a single CD or all CDs in normal play and programme play, and a single CD in shuffle play (1 DISC mode only). In normal play mode only, the player can also repeat a single track.



Repeating all the tracks

Press REPEAT once while playing or in stop mode so that "REPEAT" appears in the display.

Repeating a single track (in normal play only)

Press REPEAT twice while playing the desired track or in stop mode so that "REPEAT 1" appears in the display.

Playing mode	Tracks played
Normal play (ALL DISCS)	Repeats all the tracks on all CDs (REPEAT), or the current track (REPEAT 1).
Normal play (1 DISC)	Repeats all the tracks on the current CD (REPEAT), or the current track (REPEAT 1).
Shuffle play (ALL DISCS)	You cannot play repeatedly.
Shuffle play (1 DISC)	All tracks on the CD are reshuffled.
Programme play	Repeats all the tracks and/or programmes in their programmed order.

To cancel repeat play

Press REPEAT so that "REPEAT" or "REPEAT 1" disappears from the display.

Chapter 3: the Radio

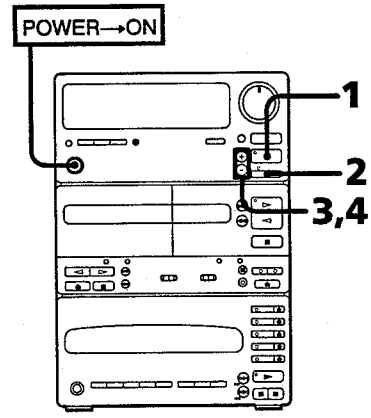
Listening to the Radio

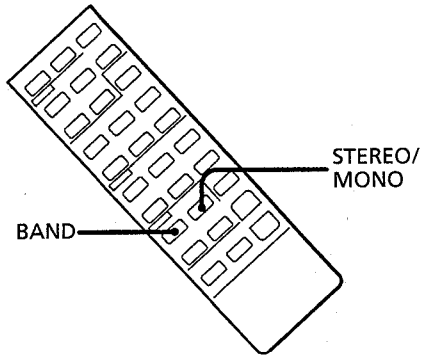
Presetting Radio Stations

Playing Preset Radio Stations

Listening to the Radio

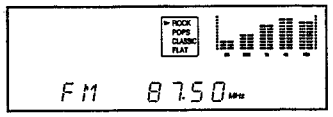
When you want to play a radio programme, you can have the tuner automatically scan the radio frequencies and tune in the stations with clear signals. This feature saves you time in searching for stations with clear signals. However, stations with weak signals may be skipped by automatic tuning. Manually tune in the ones skipped by automatic tuning.





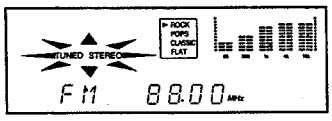
1 Press TUNER/BAND (or BAND on the remote commander) repeatedly until the band you want appears in the display. As you press this button, the band changes as follows:

FM → MW → SW



2 Press PRESET/TUNING so that the PRESET indicator goes off.

3 Keep pressing TUNER/TIMER (+/–) so that "AUTO" appears in the display. The tuner starts scanning radio frequencies automatically, and stops when it finds a clear station. "TUNED" appears in the display. "STEREO" also appears if the FM station tuned is broadcast in stereo.



4 If you don't want to listen to the station selected, repeat step 3.

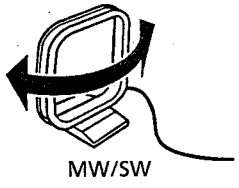
When the desired station is not tuned in

Automatic tuning may skip the station with weak signal. Tune in the station manually.

1 Press PRESET/TUNING so that the PRESET indicator goes off.
2 Press TUNER/TIMER (+/–) repeatedly until the desired station is tuned in.

To improve AM broadcast reception

Reorient the supplied AM loop aerial for AM (MW and SW).



To change the AM tuning interval

The AM tuning interval is preset to 9 kHz in the factory. If you need to change the interval, do as follows:

1 Turn on the power.
2 Change the band to AM.
3 Turn off the power.
4 Turn the power back on while pressing TUNER/TIMER (+).

After changing the AM tuning interval, reset the preset radio stations. To reset the interval to the factory setting, follow the same procedure.

When an FM programme is not clear to receive

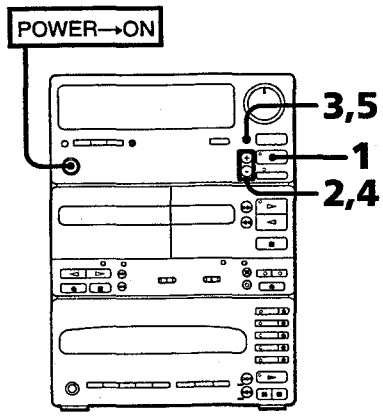
Press STEREO/MONO on the remote commander so that "MONO" appears in the display. There will be no stereo effect, but the reception will improve. Press STEREO/MONO on the remote commander again to restore the stereo effect.

One Touch Play feature

Press TUNER/BAND (or BAND on the remote commander) when the power is off. You will be able to start listening to the last received station without pressing any other buttons.

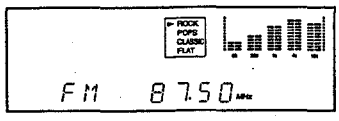
Presetting Radio Stations

You can store radio frequencies in the tuner's memory to tune in your favourite stations quickly. You can preset up to 20 FM stations, 10 MW stations and 10 SW stations in any order.
Use the buttons on the unit for presetting stations.



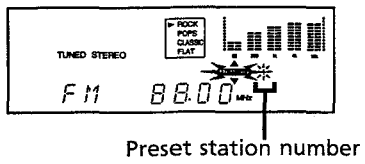
1 Press TUNER/BAND (or BAND on the remote commander) repeatedly until the band you want appears.

FM → MW → SW



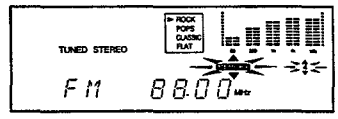
2 Press TUNER/TIMER (+/–) to tune in the station you would like to store.

3 Press MEMORY/NEXT.
"MEMORY" and the preset station number appear in the display for 8 seconds.



4 Decide on a preset number for the radio station (1 to 20 for FM, 1 to 10 for MW and SW). While "MEMORY" is lit, press TUNER/TIMER (+/–) to display the preset number you decided on.

5 Press MEMORY/NEXT.
"MEMORY" disappears, and the station is stored at the preset number you decided.



6 Repeat steps 1 to 5 for each station you would like to store.

To erase a stored station

Store a new station at a previously used preset station number. It will erase the old station and replace it with the new station.

If you have trouble storing a station

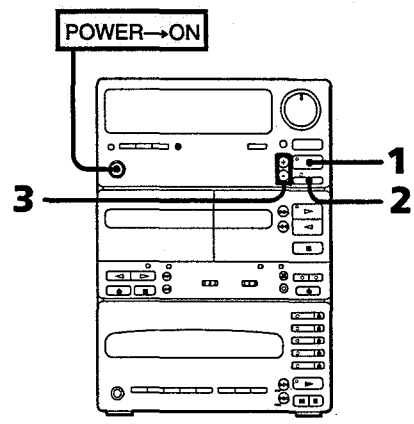
Make sure "MEMORY" is lit in the display. If not, press MEMORY/NEXT again so that "MEMORY" lights up (for about four seconds) in the display, and then proceed with steps 4 and 5.

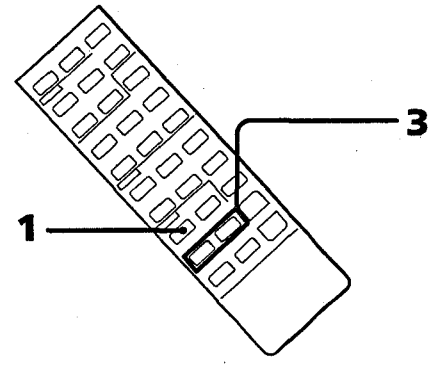
If you made a mistake

Press MEMORY/NEXT again and then proceed with steps 4 and 5.

Playing Preset Radio Stations

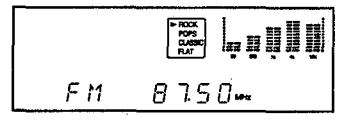
Once you have preset the stations, use the TUNER/TIMER (+/–) buttons to quickly tune in your favourite stations.





1 Press TUNER/BAND (or BAND on the remote commander) repeatedly to select the band you want.

FM → MW → SW



2 Press PRESET/TUNING so that the PRESET indicator lights up.

3 Press TUNER/TIMER (+/–) (or PRESET (–/+) on the remote commander) to tune in a preset station.
The station frequency appears and the system begins receiving the stations.

Chapter 4: the Tape Player

Playing a Tape

Recording a CD

Recording a CD: Selecting Tape Length Automatically (tape select edit)

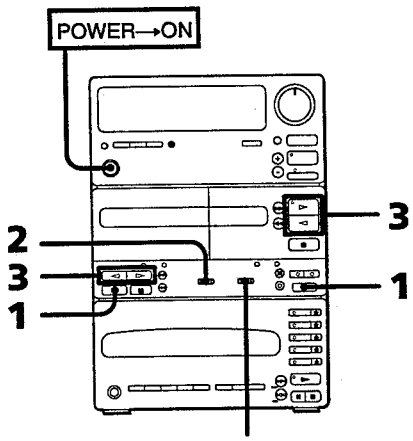
Recording a CD: Specifying Track Order (programme edit)

Recording From the Radio

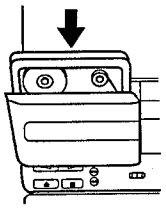
Recording From Another Tape (dubbing)

Playing a Tape

You can use TYPE I (normal) and TYPE II (CrO_2) tapes.
When you insert the tape, the deck detects the tape type automatically.



1 Press ⏏ EJECT to open the tape compartment.
Insert a recorded tape in deck A or B with the tape side facing down. Push to close the compartment.



2 Choose single-side, dual-side, or relay play.
The DIRECTION mode setting affects both decks.

To play	Set DIRECTION to
One side of the tape	⇄
Both sides*	⇆
Both decks in succession**	RELAY

* The deck stops automatically after repeating the sequence 5 times.
** See "To play both decks in succession (relay play)."

3 Press ▷ (to play the front side) or ◁ (to play the reverse side).
The tape starts playing.

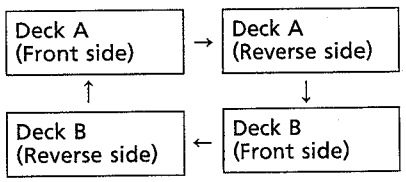
To	Press
Stop play	■
Pause	PAUSE ⏸ on the deck B
Resume play after pause	PAUSE ⏸ on the deck B or ◁ or ▷
Fast forward	▶▶ for front side ◀◀ for reverse side
Rewind	◀◀ for front side ▶▶ for reverse side
Remove the cassette	⏏ EJECT

To play automatically after fast winding (auto play)

To start playing from the beginning of the front side, press ▷ while holding down ◀◀.
To start playing from the beginning of the reverse side, press ◁ while holding down ▶▶.

To play both decks in succession (relay play)

Relay play always follows the following sequence. When the reverse side of the tape in deck B finishes playing, the following sequence continues 4 more times.



1 Press ⏏ EJECT and insert recorded tapes in both decks.
2 Set the DIRECTION mode selector to RELAY.
3 Press ◁ or ▷ on either deck.

To stop relay play

Press ■ on the playing deck.

If you play both decks at the same time

You hear the sound from deck A. However, a short break in sound output will occur after the activation of the second deck.

When listening to a tape recorded with the Dolby* noise reduction system

Set the DOLBY NR switch to ON.
The setting affects both decks. Dolby noise reduction system reduces tape hiss noise in low-level high-frequency signals.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

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One Touch Play feature

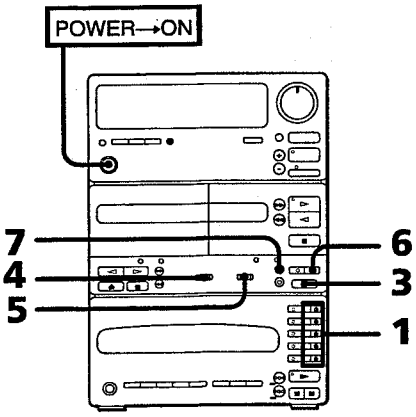
Press ▷ or ◁ on deck B when the power is off.
When a tape is in the player, you will immediately be able to listen to the tape without pressing any other buttons. If no tape is inserted, the system will just turn on.

Recording a CD

You can record from a CD to a tape. Use TYPE I (normal) or TYPE II (CrO_2) tapes. You cannot listen to other sources while recording.

Recording a CD Automatically

By using the CD SYNCHRO button, you can record from a CD to a tape quickly. Use the buttons on the unit for this operation.



1 Press OPEN/CLOSE ⏏ on the CD player and place a CD. Then, press OPEN/CLOSE ⏏ again to close the tray. Total number of tracks and the total playing time appear in the display.

2 Select the desired playing mode.
If necessary, press DISC SKIP on the remote commander to choose a CD.

3 Press ▲ EJECT on the tape player and insert a blank tape into deck B.
Make sure the tabs on the cassette have not been removed.

4 Select dual or single-sided recording.

To record	Set DIRECTION to
One side	⇄
Both sides*	⇆

* Recording always stops at the end of the reverse side. Be sure to start from the front side.

5 When you want to reduce the hiss noise in low-level high-frequency signals, set DOLBY NR to ON.

6 Press CD SYNCHRO.
Deck B stands by for recording.

7 Press PAUSE ▮▮ on the tape player to release recording pause.
Recording starts.

To stop recording

Press ■ on deck B or the CD player.

If the CD SYNCHRO button does not operate

It means that you cannot record on this cassette. (The tabs have been removed.)

Adjusting the volume will not affect the recording level

But this control will change the sound levels you hear through the speakers or headphones.

What the ▷ and ◁ indicators indicate

The ▷ and ◁ indicators light to indicate which side starts recording.
They also tell you if a tab has been removed.

If one indicator lights steadily and the other indicator flashes for a few seconds, then disappears

It means that recording will start from the side which indicator lights steadily. If you want to start recording from the other side, press the other side button.

If one indicator lights steadily and the other indicator neither lights nor flashes

It means that you can record on only the side which indicator lights steadily. (The tab on the other side has been removed.)

If one indicator flashes steadily and the other indicator neither lights nor flashes

It means that you can record on only the side which indicator flashes steadily. Switch sides to start recording by pressing the button of the side which is flashing.

If both indicators neither light nor flash

It means that you cannot record on this cassette. (Both tabs have been removed.)

When you record more than one CD

The tape player automatically runs without recording and then enters recording pause mode while the CD player is changing the disc trays.

Note

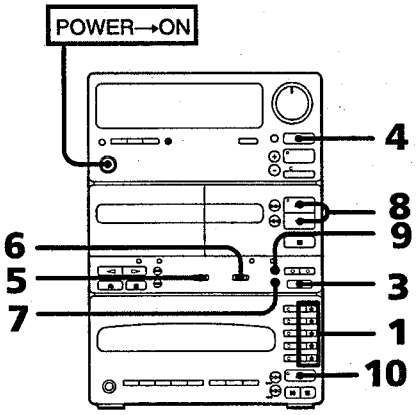
You cannot record the adjusted sound.

When pressing the REC ○ button and the CD SYNCHRO button during playback, fast-forwarding or rewinding on deck A

Deck A stops and deck B enters recording pause mode.

Recording a CD Manually

You can record a CD as you like, for instance, record just the songs you want or record from the middle of the tape.



1 Press OPEN/CLOSE ⏏ on the CD player and place a CD. Then, press OPEN/CLOSE ⏏ again to close the tray. Total number of tracks and the total playing time appear in the display.

2 Select the desired playing mode.
If necessary, press DISC SKIP on the remote commander to choose a CD.

Note

Make sure that the total number of tracks and the total playing time appear in the display.

3 Press ▲ EJECT on the tape player and insert a blank tape into deck B. Make sure the tabs on the cassette have not been removed.

4 Press FUNCTION to select the CD player.

5 Select dual or single-sided recording.

To record	Set DIRECTION to
One side	⇄
Both sides*	⇆

* Recording always stops at the end of the reverse side. Be sure to start from the front side.

6 When you want to reduce the hiss noise in low-level high-frequency signals, set DOLBY NR to ON.

7 Press REC ○ (or ● REC on the remote commander).
Deck B stands by for recording.

The ▷ (for front side) or ◁ (for reverse side) indicator lights steadily to show you which side will start recording. The other indicator flashes for a few seconds, then disappears.

For a full explanation of the ▷ and ◁ indicators, see "What the ▷ and ◁ indicators indicate" in "Recording a CD Automatically".

8 If the indicator for the side you want to start recording does not light, press ▷ or ◁ to light the side to start recording. If it lights, skip to step 9.

9 Press PAUSE ▯▯ on the tape player to release recording pause.
Recording starts. You can also start recording by pressing ▷ or ◁.

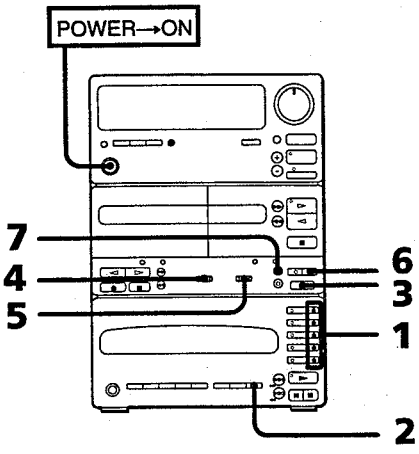
10 Press ► on the CD player.
The CD player starts playing.

To	Press
Stop recording	■ on the deck B
Pause recording	PAUSE ▯▯ on the deck B
Stop CD play	■ on the CD player
Pause CD play	▮▮ on the CD player

Adjusting the volume will not affect the recording level
But this control will change the sound levels you hear through speakers or headphones.

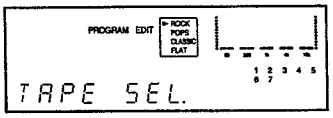
Recording a CD: Selecting Tape Length Automatically (tape select edit)

You can have the stereo system select and indicate the most suitable tape length for recording each disc automatically.
You cannot use Tape Select Edit for discs which contain 21 tracks or more.

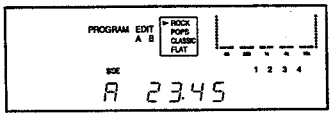


1 Press OPEN/CLOSE ⏏ on the CD player and place a CD on the tray. Then press OPEN/CLOSE ⏏ again to close the tray. If necessary, press DISC SKIP on the remote commander to choose a CD.
The total number of tracks and total playing time appear in the display.

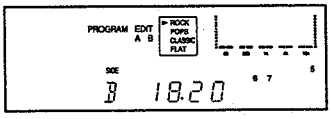
2 Press EDIT.
"EDIT" appears in the display, and the player divides the tracks automatically. Then the display changes as follows:



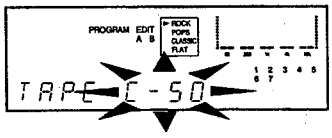
Total playing time for side A



Total playing time for side B



The tape length required



3 Insert a blank tape of the indicated tape length (or a longer tape) into deck B.

4 Select dual or single-sided recording.

To record	Set DIRECTION to
One side	⇄
Both sides*	⇆

* Recording always stops at the end of the reverse side. Be sure to start from the front side.

5 When you want to reduce the hiss noise in low-level high-frequency signals, set DOLBY NR to ON.

6 Press CD SYNCHRO.
Deck B stands by for recording.

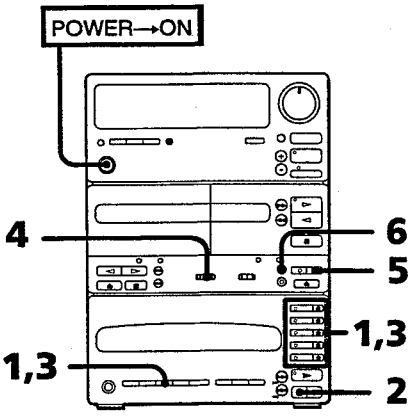
7 Press PAUSE ▯▯ on the tape player to release recording pause.
Recording starts.

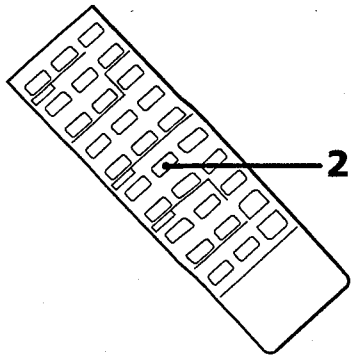
To	Press
Stop recording	■
Resume play	CONTINUE

Note
"C - - -" appears when the required tape length exceeds 90 minutes.

Recording a CD: Specifying Track Order (programme edit)

You can adjust the total recording time to the tape length while making a programme.





1 Following the procedure "Playing in the Desired Order (programme play)", programme the tracks you want to record for side A.
Make sure to programme the tracks so that the total playing time of side A does not exceed the tape length of one side.

2 Press ▮▮.
"P" appears in the display and the total playing time is reset to "0.00".

3 Programme the tracks you want to record for side B as the same way as you did for side A.

4 Select dual or single-sided recording.

To record	Set DIRECTION to
One side	⇄
Both sides*	⇆

* Recording always stops at the end of the reverse side. Be sure to start from the front side.

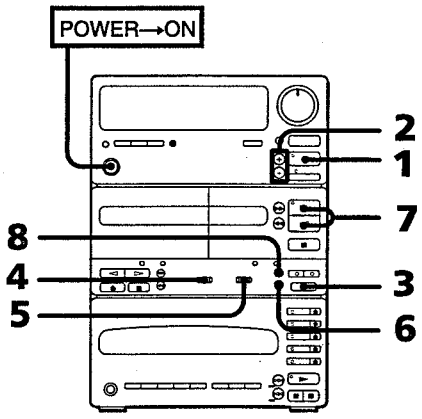
5 Press CD SYNCHRO.
Deck B stands by for recording.

6 Press PAUSE ▯▯ on the tape player to release recording pause.
Recording starts.

To	Press
Stop recording	■
Resume play	CONTINUE

Recording From the Radio

You can record from the tuner onto a tape. Use TYPE I (normal) or TYPE II (CrO_2) tapes.



1 Press TUNER/BAND several times until the desired radio band appears.

2 Tune in the radio station you want to record. (See "Listening to the Radio", or "Playing Preset Radio Stations" for details.)

3 Press ⏏ EJECT and insert a blank tape into deck B.

4 Select dual or single-sided recording.

To record	Set DIRECTION to
One side	⇄
Both sides*	⇆

* Recording always stops at the end of the reverse side. Be sure to start from the front side.

5 When you want to reduce the hiss noise in low-level high-frequency signals, set DOLBY NR to ON.

6 Press REC ○ (or ● REC on the remote commander).
Deck B stands by for recording.

The ▷ (for front side) or ◁ (for reverse side) indicator lights steadily and shows you which side will start recording. The other indicator flashes for a few seconds, then disappears.

For a full explanation of the ▷ and ◁ indicators, see "What the ▷ and ◁ indicators indicate."

7 If the indicator for the side you want to start recording does not light, press ▷ or ◁ to light the side to start recording.
If it lights, skip to step 8.

8 Press PAUSE ▯▯ on the tape player to release recording pause.
Recording starts. You can also start recording by pressing ▷ or ◁.

To stop recording

Press ■.

When recording AM broadcasts

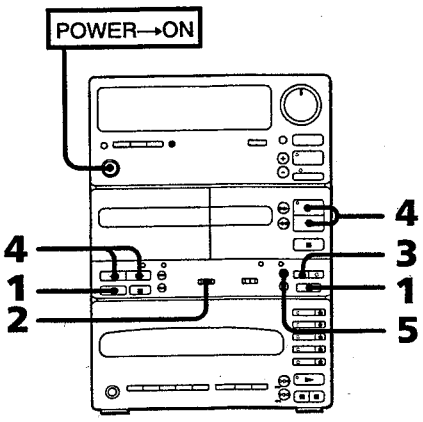
Sometimes a whistling sound not normally heard when just listening to a broadcast is audible. If this happens, adjust the position of the AM loop aerial until the whistling sound can no longer be heard.

Adjusting the volume will not affect the recording level

But this control will change the sound levels you hear through speakers or headphones.

Recording From Another Tape (dubbing)

You can record the whole tape onto another automatically. While dubbing, you can listen to the radio or a CD by selecting TUNER or CD. Use the buttons on the unit to do this operation and TYPE I (normal) or TYPE II (CrO_2) tape for dubbing.



1 Press ⏏ EJECT and insert a recorded tape in deck A and a blank tape in deck B.
Use ◀◀ or ▶▶ on deck A to locate the beginning of the track that you want to record.

2 Choose how you want the tape to record and set DIRECTION to the mode you want.

Position	Operation
⇄	Dubbing stops at the end of one side
⇆	When the tape in one deck comes to the end of the front side, it reverses immediately regardless of the tape position in the other deck.
RELAY	When the tape in one deck reaches its end of the front side, it stops until the other tape come to its end, and then both tapes reverse together.

3 Press HIGH SPEED DUBBING.
The HIGH SPEED DUBBING indicator, the REC indicator and the PAUSE indicator light up, and deck B enters the recording pause mode.

4 Choose the same direction on both decks by pressing ▷ or ◁.
To dub on one side, choose ▷ or ◁.
To dub on both sides, choose ▷.

5 Press PAUSE ⏸.
The tape starts dubbing.
When the tape has started dubbing from the reverse side in ⇆ mode, dubbing will stop at the end of the reverse side.

To stop dubbing

Press ■ on either deck.

When pressing the REC ○ button and the CD SYNCHRO button during playback, fast-forwarding or rewinding on deck A

Deck A stops and deck B enters recording pause mode.

You do not have to set DOLBY NR

The tape in deck B is automatically recorded in the same state as the tape in deck A.

If the indicator of the HIGH SPEED DUBBING button flashes 3 times and disappears

It means that you cannot record on this cassette. (The tabs have been removed.)

Listening to another audio source while dubbing is in progress

Select the sound source that you want to listen to, using the FUNCTION button on the unit. You can monitor the material being dubbed by selecting TAPE.

During high-speed dubbing

None of the buttons on either deck work, except for the ■ button.

Chapter 5: Sound Adjustment

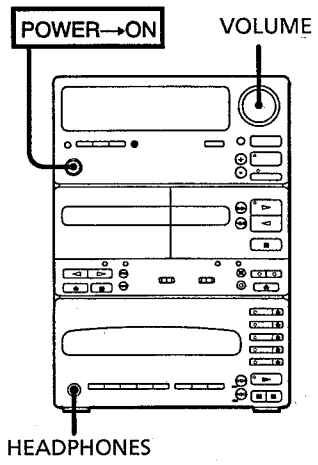
Adjusting the Sound

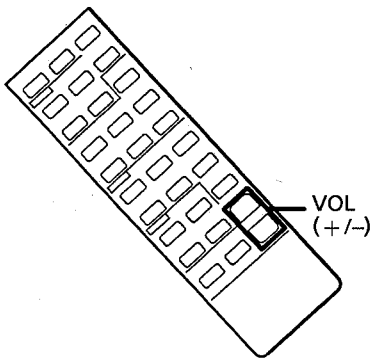
Selecting the Audio Emphasis

Adjusting the Sound

To fully enjoy the sound coming from your stereo system, make the following audio adjustments. See the following sections for additional sound adjustments.

Adjusting the Volume



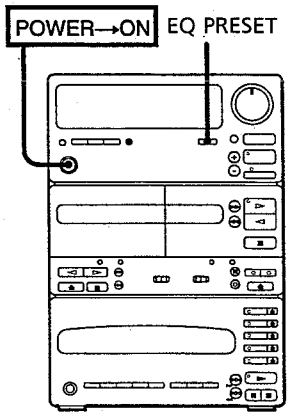


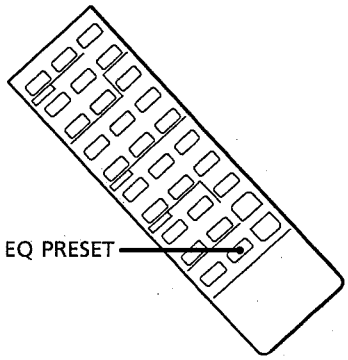
Turn VOLUME or press VOL (+/–) on the remote commander.

To listen through the headphones
Connect the headphones to HEADPHONES jack. No sound will come from the speakers.

Selecting the Audio Emphasis

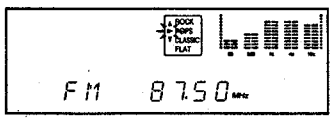
Your stereo system has been factory set to three specially recommended audio emphases. Choose from among these three settings according to the type of music you are listening to.





Press EQ PRESET until the audio emphasis you want appears in the display.
Each time you press the button, display changes as follows:

ROCK → POPS
↑ ↓
FLAT ← CLASSIC



Choose	To get
ROCK	Powerful, clear sounds, emphasizing low and high audio
POPS	Light pops sound that emphasizes the vocals
CLASSIC	Broad, open sounds with plenty of reverberation

Notes

- You cannot record the sound you have adjusted.
- You cannot adjust the graphic equalizer manually.

To cancel the audio emphasis
Press EQ PRESET until "FLAT" appears in the display. The equalizer curve becomes flat.
Press EQ PRESET again to activate the audio emphasis.

Chapter 6: Additional Features

Falling Asleep to Music

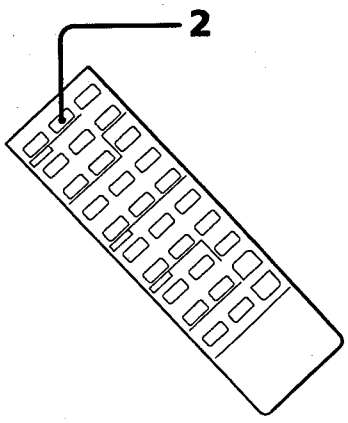
Waking Up to Music

Timer-Recording Radio Programmes

Connecting Optional Equipment

Falling Asleep to Music

You can set the stereo system to turn off automatically so you can go to sleep to music.
Before setting the sleep timer, make sure the clock has been set correctly.

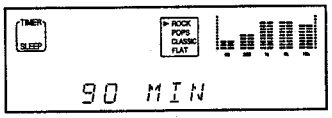


1 Play your favourite sound source (a tape, the tuner or a CD).

2 Press SLEEP while the source is playing to choose how long you want the music to play.
"SLEEP" and the minutes indication appear in the display. As you press SLEEP, the indication decreases by ten minutes from 90 to 10.

The power will turn off after 90 to 10 minutes depending on the length of time you chose.

90 → 80 → ... → 10 → OFF



To cancel the sleep timer
Set the timer to "SLEEP OFF".

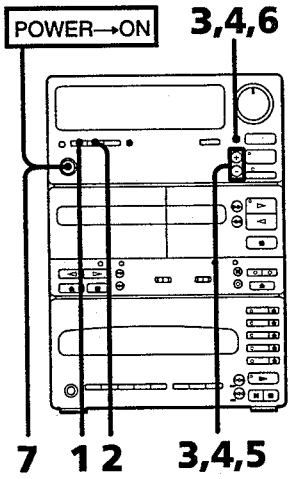
To check the remaining time before the sleep timer turns off the system
Press SLEEP once.
The remaining time in minutes is displayed for several seconds.

To change the remaining time while the sleep timer is in operation
Press SLEEP repeatedly and select the remaining time you want.

To turn off the system before the sleep timer turns off the system
Press SYSTEM POWER.

Waking Up to Music

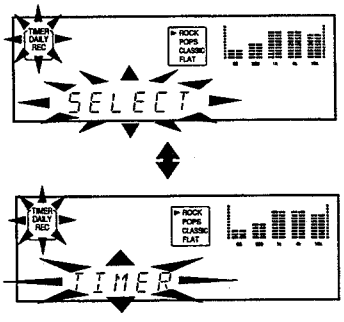
You can wake up to music at a preset time. You need only set the timer once. When you select the CD player as the sound source, you can play a CD in any play mode (normal, shuffle or program). The timer will remain activated until you reset it or you disconnect the power cord. Before setting the timer, make sure the clock has been set correctly.



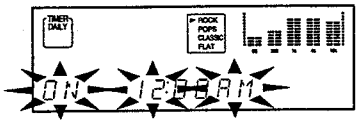
Before setting the timer

1 Set the condition of the sound when the power turns on.
2 To wake up to the sound of the tuner, tune in the preset station you want to hear beforehand.

1 Press TIMER SET.
The following displays appear in alternation.



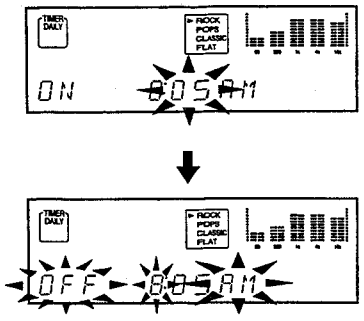
2 Press DAILY.
"DAILY" and "ON" appear and the hour digits flash in the display.



continue to next page →

→ continued

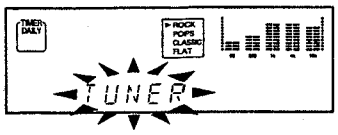
3 Set the hour you want the music to go on by pressing TUNER/TIMER (+/–), then press MEMORY/NEXT. Set the minutes in the same way.
"OFF" appears and the hour digits flash in the display.



4 Set the hour you want the music to go off by pressing TUNER/TIMER (+/–), then press MEMORY/NEXT. Set the minutes in the same way.
The sound source setting screen appears.

5 Choose a sound source by pressing TUNER/TIMER (+/–).
Each time you press the button, the display changes as follows:

TUNER ↔ CD PLAY ↔ TAPE PLAY



6 Press MEMORY/NEXT. The preset items appear in the display sequentially.

To play	Do this
a CD	Insert a CD.
a Tape	Insert a tape in deck A or B with the side you want to play facing towards you.

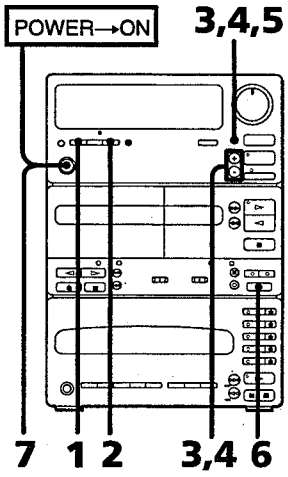
7 Press SYSTEM POWER to turn off the system.
About 10 seconds before the preset time, the power will go on and the music will play. At the turn-off time, the power will go off again.

If you made a mistake during setting procedure
Repeat steps 1 through 7.

To check the preset items
To change the timer settings
To cancel the timer
To activate the timer again
See "Timer-Recording Radio Programmes".

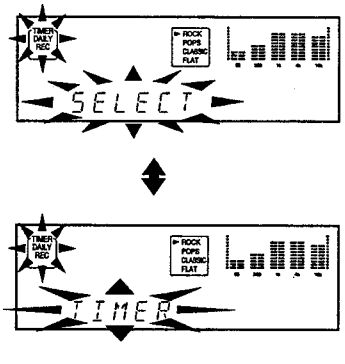
Timer-Recording Radio Programmes

You can set the timer to record the radio at a certain time. This timer works only once for each setting. The volume level is automatically set to MIN.

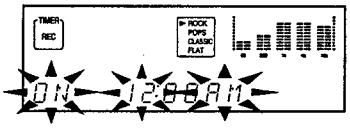


Before setting the timer
1 Make sure the clock is set correctly.
2 Tune in the preset station.

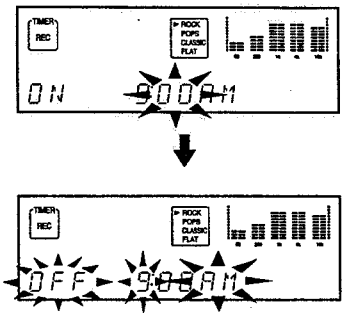
1 Press TIMER SET.
The following displays appear in alternation.



2 Press REC TIMER.
"REC" and "ON" appear and the hour digits flash in the display.



3 Set the hour you want to start recording by pressing TUNER/TIMER (+/–), then press MEMORY/NEXT. Set the minutes in the same way. "OFF" appears and the hour digits flash in the display.



4 Set the hour you want to stop recording by pressing TUNER/TIMER (+/–), then press MEMORY/NEXT. Set the minutes in the same way.

5 Press MEMORY/NEXT.
The preset items appear in the display sequentially.

6 Insert a tape into deck B.
Recording always starts from the front side. Be sure that the side you want to start recording on is facing towards you. If necessary, select the direction mode and Dolby NR.

7 Press SYSTEM POWER to turn off the system.

To check the preset items
Press DAILY or REC TIMER so that the indicator for the timer you want appears in the display. The preset items appear in the display sequentially, then the original display returns. (Press again when the indicator disappears.)

To change the timer settings
Repeat steps 1 to 7.

To cancel the timer
Press DAILY or REC TIMER so that the indicator for the timer you want to cancel disappears.

To activate the timer again
Press DAILY or REC TIMER and make sure that the preset items appear in the display. Then, the original display returns.

If the power is on at the preset time

The sound source will automatically change to the tuner, but tuner recording will not start.

Notes

- You cannot set the timer if the timer-on and -off times are the same.
- The operation initiated by the timer actually starts 10 seconds before the timer-on time. If you perform another operation during these 10 seconds, the timer operation will not be performed normally.

Connecting Optional Equipment

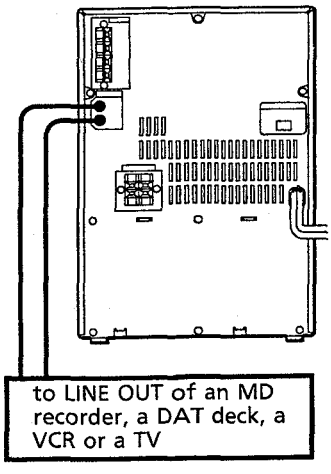
For greater enjoyment of your stereo system, you can connect other components to the stereo. You can connect:

- an MD recorder
- a DAT deck
- a VCR
- a TV
- headphones

Turn off all the units before connection.

Connecting an MD recorder, a DAT deck, a VCR or a TV

rear panel of HCD-C33



1 Connect the LINE OUT jacks of the MD recorder, the DAT deck, VCR or the TV to the MD/VIDEO IN jacks on the rear panel of HCD-C33 with the audio connecting cable.

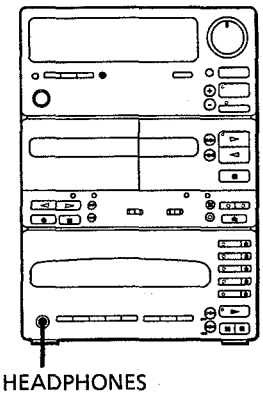
Make sure you connect the plugs to jacks of the same color.

2 Press FUNCTION repeatedly until "VIDEO" appears in the display to select VIDEO.
The connected sound source comes through the speakers.
You can also record the VCR or the TV sound.

To connect headphones

You can connect the headphones (stereo minijack) to the HEADPHONES jack on the front panel of HCD-C33.

front panel of HCD-C33



For Your Information

Precautions

Troubleshooting Guide

Maintenance

Specifications

Glossary

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Index

Precautions

If you have any questions or problems concerning your stereo system, please consult your nearest Sony dealer.

On operating voltage

Before operating the stereo system, check that the operating voltage of your stereo system is identical with the voltage of your local power supply.

Operating voltage	110 – 120 V or 220 – 240V AC adjustable, 50/60 Hz

On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the component, unplug the stereo system and have the component checked by qualified personnel before operating it any further.
- AC power cord must be changed only at the qualified service shop.
- Do not open the disc tray during CD operations. This activates the safety device, stops operations, and starts initializing operations.

On installation

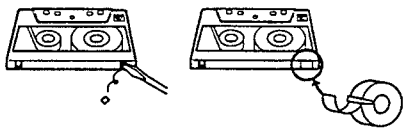
Place the stereo system in a location with adequate ventilation to prevent heat build-up in the stereo system.

On condensation in the CD player component

If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player. Should this occur, the CD player will not operate. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.

To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette tab from side A or B as illustrated. If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.



When you are using a TYPE II (CrO_2) cassette, be careful not to cover the detector slots which allow the tape player to automatically detect the type of tape.

In case colour irregularity is observed on nearby TV screens

With the magnetically shielded type of the speaker system, the speakers can be installed near a TV set. However, colour irregularity may still be observed on the TV screen depending on the type of your TV set.

If colour irregularity is observed...

Turn off the TV set once, then turn it on after 15 to 30 minutes.

If colour irregularity is observed again...

Place the speakers farther away from the TV set.

Troubleshooting Guide

If you run into any problem using the stereo, use the following check list. And first check the following points:

- The power cord is connected firmly.
- The speakers are connected correctly and firmly.

Should any problem persist after you have made the checks below, consult your nearest Sony dealer.

Tuner

"TUNED" flashes in the display.

→ Adjust the aerial.

"STEREO" flashes in the display.

→ Adjust the aerial.

Severe hum or noise.

→ Adjust the aerial.
→ The signal strength is too weak. Connect the external aerial.
→ Connect the ground wire.

A stereo FM programme cannot be received in stereo.

→ Press STEREO/MONO on the remote commander so that "STEREO" appears.

Tape Player

The ⏏ EJECT button does not work.
→ There has been a power failure or the power cord has been disconnected.
Reconnect the power.

The tape does not record.
→ No tape in the cassette holder.
→ The tab has been removed from the cassette.
→ The tape has reeled to the end.

The tape does not record nor playback or there is a decrease in sound level.
→ The heads are dirty. Clean them.*
→ Magnetic deposits have built-up on the record/playback heads.*

There is excessive wow or flutter, or the sound drops out.
→ The capstans or pinch rollers are contaminated.*

The tape does not erase completely.
→ Magnetic deposits have built-up on the record/playback heads.*

Noise increases or the high frequencies are erased.
→ Magnetic deposits have built-up on the record/playback heads.*

* See "Maintenance."

CD Player

The disc tray does not open.
→ Turn off the power and disconnect the mains lead.

The disc tray does not close.
→ The CD is not placed correctly.

The CD will not play.
→ The CD is dirty.
→ The CD is inserted label side down.
→ The player is in pause mode.
→ Moisture condensation has built up. Leave the system turned on for about an hour until the moisture evaporates.

"NO DISC" is displayed.
→ There is no CD in the player.

Play does not start from the first track.
→ The player is in programme or shuffle mode. Press CONTINUE.

"OVER" is displayed.
→ ▶▶ ▷▷| was repeatedly pressed at the end of the CD. Press |◁◁ ◀◀ (or |◀◀ on the remote commander) to return to the normal display.

General

There is no sound.
→ Rotate VOLUME clockwise.
→ The headphones are connected. Disconnect them.

Sound comes from one channel or unbalanced left and right volume.
→ Check the speaker connections of the inoperative channel.

The left and right sound are reversed.
→ Check the speaker connection and speaker placement.

Bass is lacking or the location of the musical instruments is apparently imprecise.
→ Check the speaker connection for proper phasing.

There is severe hum or noise.
→ A TV or VCR is too close to the stereo system. Move the stereo system away from the TV or VCR.

"12:00AM" flashes in the display.
→ A power interruption occured. Set the clock and timer settings again.

The remote commander does not function.
→ The batteries have run down. Replace both batteries.
→ There is an obstacle between the remote commander and the system. Remove the obstacle.

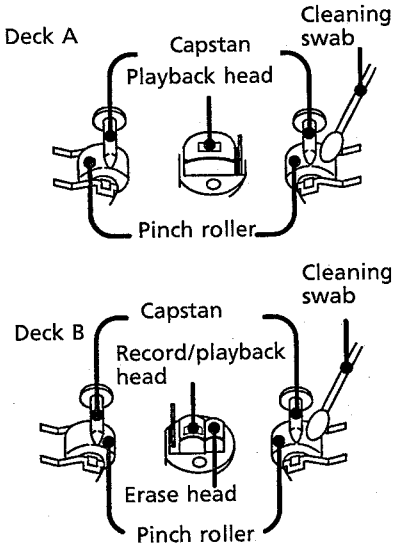
Restoring the factory settings

For the tuner
After unplugging the mains lead, hold down TUNER/BAND and then plug the mains lead back into the wall outlet.

Maintenance

To clean the tape heads and tape path
Contaminated tape heads cause poor recording or sound drop-out in playback. We recommend cleaning after every 10 hours of operation.

Open the tape compartment and wipe the heads, the pinch rollers and the capstans with a cleaning swab slightly moistened with cleaning fluid or alcohol. Wipe the parts shown below:



Insert a tape when the areas cleaned are completely dry.

To demagnetize the tape heads
After 20 to 30 hours of use, enough residual magnetism will have built up on the heads to begin to cause loss of high frequencies and hiss. At this time, demagnetize the heads and all metal parts in the tape path with a commercially available tape head demagnetizer. Refer to the instructions of the demagnetizer.

To clean the cabinet
Use a soft cloth slightly moistened with mild detergent solution.

To clean the CD
When a CD is dirty, clean it with a cleaning cloth. Wipe the CD from the centre out.

Notes on CD
- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.
- If there is a scratch, dirt or fingerprints on the CD, it may cause a tracking error.

Specifications

CD player section (HCD-C33)

System: Compact disc digital audio system
Laser: Semiconductor laser
Wavelength: 780 – 790 nm
Frequency response: 2 Hz – 20 kHz
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 90 dB

Tuner section (HCD-C33)

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range: 87.5 – 108.0 MHz
Antenna terminals: 75 ohm unbalanced
Intermediate frequency: 10.7 MHz

AM tuner section

Tuning range
MW: 531 – 1,602 kHz (With the MW tuning interval set at 9 kHz)
SW: 5.95 – 17.90 kHz
Aerial: AM loop aerial, External aerial terminals
Intermediate frequency: 450 kHz

Amplifier section (HCD-C33)

Peak music power output: 350 watts
Continuous RMS power output: 35 + 35 watts (6 ohms at 1 kHz, DIN)
38 + 38 watts (6 ohms at 1 kHz, 5% THD)
Inputs
LINE IN (phono jack): sensitivity 450 mV, impedance 47 kilohms
Outputs
HEADPHONES (stereo minijack): accepts headphones of 8 ohms or more.
SPEAKER: accepts speakers of 6 to 16 ohms.

Tape player section (HCD-C33)

Recording system: 4-track 2-channel stereo
Frequency response
(DOLBY NR OFF)
40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette
40 – 14,000 Hz (±3 dB), using Sony TYPE II cassette
Wow and flutter: 0.1% WRMS ±0.3% (DIN)

Speaker (SS-M33)

Speaker system: 3-way, bass-reflex type (magnetic shielded)
Speaker units
Woofer: 13 cm dia., cone type
Tweeter: 5 cm dia., cone type
Super Tweeter: 2 cm dia., dome type
Nominal impedance: 6 ohms
Maximum power output: 80 watts
Dimensions: Approx. 175 x 325 x 245 mm (w/h/d) (7 x 12 7/8 x 9 3/4 inches)
Mass: Approx. 3.1 kg (6 lb 13 oz) net per speaker

Supplied accessories

AM loop aerial (1)
Remote commander RM-S343 (1)
Sony SUM-3 (NS) batteries (2)
FM lead aerial (1)
Speaker cords (2)

General

Power requirements
110 – 120 V or 220 – 240 V AC
Adjustable, 50/60 Hz
Power consumption: 90 watts
Dimensions: Approx. 225 x 325 x 320 mm (w/h/d) (8 7/8 x 5 3/8 x 12 5/8 inches)
Mass: Approx. 9 kg (19 lb 13 oz)

Design and specifications are subject to change without notice.

Glossary

Notes on the Recording Functions

What is Dolby NR*?

Dolby NR is a recording technology that reduces the high-frequency tape hiss that is audible when listening to soft music.

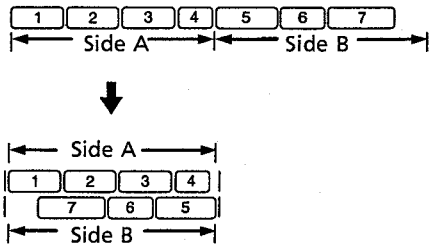
* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

What is Tape Select Edit?

Tape Select Edit is a function that selects the exact length of tape needed to record a particular CD. Once you insert a CD and press the button, the CD is recorded (with all of the tracks in the same sequence as on the CD) on sides A and B automatically. The optimum length of time needed to record the total playback time is shown on the display. Using a tape of the indicated length makes it possible to record the entire CD without any tracks being cut off in the middle.

When the tracks are to be recorded in sequence, they are divided between sides A and B and a tape length is selected that will allow for recording without any tracks being cut in the middle and that will leave as little blank as possible.

Tracks on the CD

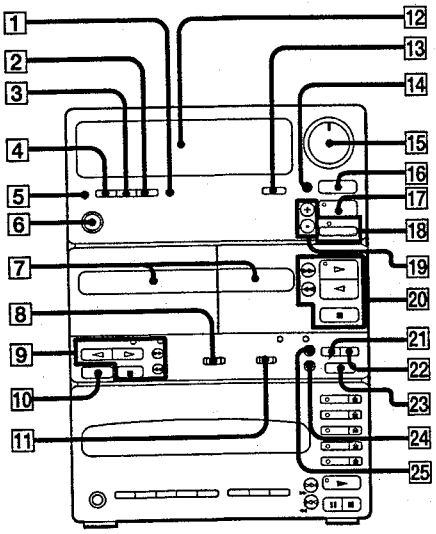


Index to Parts and Controls

Refer to the pages indicated in parentheses for details on how to use the controls. Controls with an asterisk have indicators on themselves.

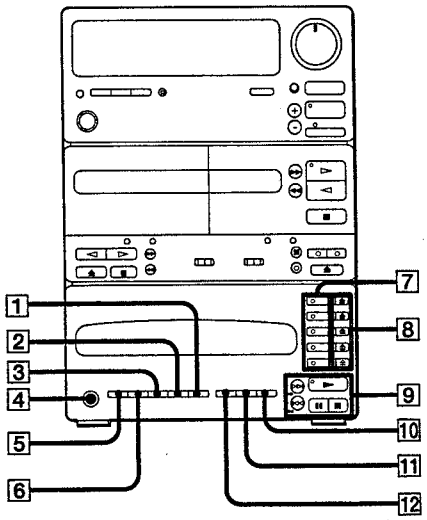
Front Panel

Amplifier/Tuner/Tape player section



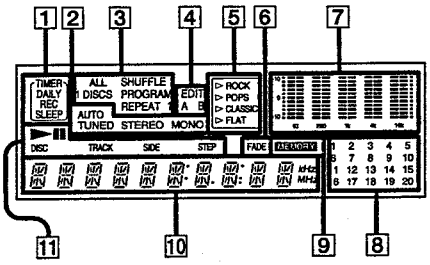
1 CLOCK SET button (6)
2 REC TIMER button (20)
3 DAILY button (19)
4 TIMER SET button (19)
5 Remote sensor
6 SYSTEM POWER switch (6)
7 Cassette compartments (13)
8 DIRECTION mode selector (13)
9 Tape operating buttons (for deck A)
▷ (front side play)* (13)
◁ (reverse side play)* (13)
■ (stop) (13)
▶▶ (fast rightward) (13)
◀◀ (fast leftward) (13)
10 ⏏ EJECT button (for deck A) (13)
11 DOLBY NR switch (13)
12 Display window (6, 7, 11, 15, 18, 19)
13 EQ PRESET button (18)
14 MEMORY/NEXT button (6, 12, 20)
15 VOLUME control (5, 8, 18)
16 FUNCTION button (7, 14, 21)
17 TUNER/BAND button (11, 16)
18 PRESET/TUNING button and PRESET indicator (11)
19 TUNER/TIMER (+/–) buttons (6, 11, 20)
20 Tape operating buttons (for deck B)
▷ (front side play)* (13)
◁ (reverse side play)* (13)
■ (stop) (13)
▶▶ (fast rightward) (13)
◀◀ (fast leftward) (13)
21 HIGH SPEED DUBBING button* (17)
22 CD SYNCHRO button* (14)
23 ⏏ EJECT button (for deck B) (13)
24 REC ○ button* (15)
25 PAUSE ⏸ button* (13)

CD player section



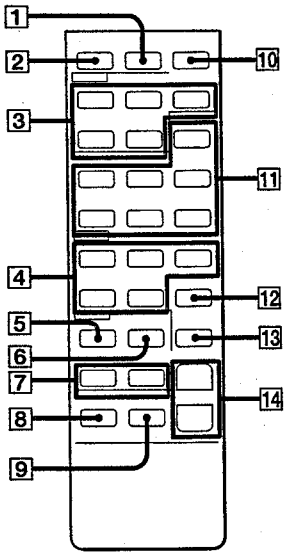
1 MUSIC SCAN button (8, 9)
2 REPEAT button (10)
3 PROGRAM button (9, 16)
4 HEADPHONES jack (stereo minijack) (18, 21)
5 CONTINUE button (8, 15)
6 SHUFFLE button (9)
7 DISC 1 – 5 buttons* (7, 8)
8 OPEN/CLOSE ⏏ buttons (7, 14)
9 CD player operating buttons
▶ (play) (8, 15)
⏸ (pause) (8, 15)
■ (stop) (8, 14)
⏮ ◀◀ ▶▶ ⏭ (manual search/AMS) (8)
10 EDIT button (15)
11 CLEAR button (10)
12 CHECK button (10)

Display Window



1 Timer indication (19)
2 Tuner indication (11)
3 CD play mode indication (7)
4 CD editing mode indication (10, 15)
5 Audio emphasis indication (18)
6 Fade synchro recording indication
7 Spectrum analyzer (18)
8 Music calendar/preset radio station numbers (7, 12)
9 MEMORY indication (12)
10 Frequency/playing time indications (7, 11, 15)
11 CD play status indication (7)

Remote commander



1 SLEEP button (19)
2 FUNCTION button (7, 14, 21)
3 Deck A operating buttons (13)
4 CD operating buttons (7, 8)
5 BAND button (11)
6 STEREO/MONO button (11)
7 PRESET –/+ buttons (12)
8 CLOCK DISPLAY button (6)
9 EQ PRESET button (18)
10 SYSTEM POWER button (6)
11 Deck B operating buttons (13)
12 DISC SKIP button (7)
13 TIME button (8)
14 VOL +/– buttons (8, 18)

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